Quality Control

		,	
NCR:	Yes	/	NO

## WORK ORDER NON-CONFORMANCE / UPDATE

DQA Jul Date:	13/06/18
OA Closed: (M. Date:	12/1/17

									QA Closed:	Date:	19/6/17
Work Orde	er:	016	68		DISPOSITION			AGAINST DE	PARTMENT	/PROCESS	
Part N	lo lo	3195 3-27	5-6 44	041	Rework Scrap Use-as-is 入 Work Order Update		Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	4	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root				Descri	ption of work order update	Initial	Act	tion	Sign &		
Cause	Dat	e Step	Qty		or Non-conformance	Chief Eng	Descr	ription	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material	13/1	13 110	3	101.0\$P	or Non-conformance 19/ Hale is over by up to 0.010".	13/43	Acceptable on test	hised		AS <b>16</b>	(PAS)
Setup Other Process				fc o	pendur	17/47	in A/C.		13/6/3	ps lotelu	13/6/u
Supplier Training Unapproved			,		,						
					FA	<b>AULT CATE</b>	GORY			-2-1-1-1-	
Landir	ng Gear				General	Grain		Γ-	Ovalized	_	Pressure/Forced
	Crack	e Not Conce		o/s	Bend BOM/Route Broken/Damaged	Hardwa Inspect	ion Incomplete		Over/Under Part Incorred	ct	Temperature/Cure Weld
	Crush	ed/Crimped	!	_	Burrs Contamination	<b>}</b>	tions Incomplete/l enance	Jnclear	Part Lost/Mi Part Moved	issing	Wrong Stock Pulled
	Heat	Гreat		-	Countersink	Mislabe		-	Positioned V	Vrong	
	<del></del>	ction Strip i	n Tube		Cut Too Short	Misrea			Power Loss/		Other
	Rippl	es in Bend			Drill Holes	Offset					
	Torq	e Waves in	Extrusio	n 🗌	Drawing	Out of	Calibration				
	Turni	ng Sequenc	9		Finish	Out of:	Sequence		_3		
	Wave	/Twist in Tu	be	l	Folio	Outside	e Dimensions				

150

Grey Sandtex(Ref:4.3.5.6) per QSI005 4.3

0.00

\*150\* Powdercoat Powder Coating

Memo START TIME: OVEN TEMPERATURE:

16 XX m / 13/06/06

Page 2

Insp.

Stamp

m121279

NICD.	Voc	1	NI.
NCR:	Yes	/	No

DQA: Date:

NCR: Y	es / No	)			WORK ORDER NON-C	CONF	ORN	AANCE / UP	DATE	QA Closed:	Date:	
Work Orde	ŕ:				DISPOSITION				AGAINST D	EPARTMENT,	/PROCESS	
Part N					Rework Scrap		ľ	Skid-tube Machining	Crosstube Small Fab		Water Jet d. Eng. Coor.	Engineering Quality
NCR N	o				Use-as-is Work Order Update	T		oforming Large Fab	Finishing Composite	Rec/Sto	re/Packaging Supplier	Other
Root				Descri	ption of work order update	Initi	ial	Ac	tion	Sign &		·
Cause	Date	Step	Qty		or Non-conformance	Chief	Eng	Desc	ription	Date	Verification	QC Inspector
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perator	4						ĺ					
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etup	_		Ì									
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rocess	-											
upplier						1						
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Inapproved	i	<u> </u>	1	<u> </u>	E	AULT C	ATE	SORY		<u> </u>	<u> </u>	<u>.l</u>
Landin	g Gear	······································			General	AULIC	-A1E	301(1				
[	Bendi	nσ			Bend	Пgr	ain		<u> </u>	Ovalized		Pressure/Forced
	_	Not Conce	entric to	o/s $\vdash$	BOM/Route	$\vdash$	rdwa	re		Over/Under	tolerance	Temperature/Cure
ŀ	Cracks			·	Broken/Damaged	}		on Incomplete	<u> </u>	Part Incorred		Weld
ţ		ed/Crimped	i		Burrs	_		ions Incomplete/	Unclear	Part Lost/Mi	<b></b>	Wrong Stock Pulled
ŀ	Cuffs				Contamination			nance		Part Moved		ı °
Ì	Heat 1	reat			Countersink	$\vdash$	slabe		<u> </u>	Positioned V	Vrong	
		tion Strip i	n Tube	<u> </u>	Cut Too Short	<b></b> -	sread		<u> </u>	Power Loss/		Other .
		s in Bend			Drill Holes	Of	fset		_		·	
		e Waves in	Extrusio	n	Drawing		t of C	Calibration				
1	Turnir	g Sequenc	e		Finish	Or	ıt of S	equence				
	Wave	Twist in Tu	ıbe		Folio	Or	ıtside	Dimensions				

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180

QC5- Inspect part completeness to step on W/O

D3195A/RContact Cement M 124297

\*120\* QC

Memo

Quality Control

er: _					T					QA Closed:	Date	•
_												
lo					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
					Rework Scrap Use-as-is		Therm	oforming	Crosstube Small Fab Finishing	-	re/Packaging	Engineering Quality Other
10				<del></del>	Work Order Update	J ,		Large Fab	Composite	_	Supplier	
I	Date	Step	Qtv	l .	•	1	1			Sign & Date	Verification	QC Inspector
					F	AUL	T CATE	GORY				
	Bending Centre No Cracks Crushed/G Cuffs Heat Trea Inspection Ripples in	Crimped it n Strip in Bend	Tube		Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes		Inspection Instruction Mainte Mislabe Misread Offset	on Incomplete ions Incomplete/U nance led	Jnclear	Part Incorred Part Lost/Mid Part Moved Positioned V	ct ssing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
	o.	g Gear Bending Centre No Cracks Crushed/o Cuffs Heat Trea Inspection Ripples in	Date Step  Date Step  Gear  Bending  Centre Not Concer  Cracks  Crushed/Crimped  Cuffs  Heat Treat  Inspection Strip in  Ripples in Bend	Date Step Qty  Bending Centre Not Concentric to Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend	Descri Date Step Qty  Gear Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube	O	Use-as-is Work Order Update  Date Step Qty Description of work order update or Non-conformance  FAULT General  Bending Gentre Not Concentric to O/S Cracks Broken/Damaged Crushed/Crimped Burrs  Cuffs Contamination Heat Treat Countersink Inspection Strip in Tube Ripples in Bend Drill Holes	Date Step Qty Description of work order update Chief Eng    Date   Step Qty   Description of work order update or Non-conformance   Chief Eng	O. Description of work order update Date Step Qty Or Non-conformance Chief Eng Description of work order update or Non-conformance Chief Eng Description of work order update or Non-conformance Chief Eng Description of work order update or Non-conformance Chief Eng Description of work order update or Non-conformance Chief Eng Description of work order update or Non-conformance Chief Eng Description of work order update or Non-conformance Chief Eng Description of work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Non-conformance Chief Eng Description Order Eng Description of Non-conformance Chief Eng Description Order Eng Descr	O	Use-as-is Work Order Update	Use-as-is Work Order Update

Out of Sequence

Outside Dimensions

DQA:

Date: \_\_

Turning Sequence

Wave/Twist in Tube

Finish

Folio

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Page 4

May-13-13 1:11:12 PM

Item ID:

D3195-041

5/13/13

QC:

Accept

\*N900040100\*

Setup Start

**Revision ID:** 

**Start Date:** 

Item Name:

Bracket Assembly

Start Qty: 6.00 **Req'd Qty:** 6.00

Date:

**Cust Item ID:** 

**Customer:** 

Reference:

**Approvals:** 

Required Date: 5/31/13

**Process Plan:** 

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Start Run

Stop

Sequence ID/ Work Center ID

Operation Description

Set Up/ **Run Hours**  Tool ID

Tool # Plan Code

Accept Reject Qty Qty

Reject Number

Insp. Stamp

190

\*100\*

Packaging Packaging

Memo

Identify as per dwg & Stock Location

0.00

200

QC21- Final Inspection - Work Order Release

0.00

\*200\*

Quality Control

Memo

0.00

MF 13-6-10

14

						•		,			DQA:	Date:	· • •
NCR: Y	es ,	/ No				WORK ORDER NON-C	01	VFORM	MANCE / UP	DATE	QA Closed:	Date:	
											•		
Work Orde	er:					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	*
Part N	 ا					Rework Scrap Use-as-is		ſ	Skid-tube Machining noforming	Crosstube Small Fab Finishing	-1	Waterdet d. Eng. Coor. re/Packaging	Engineering Quality Other
NCR N	No					Work Order Update			Large Fab	Composite	]	Supplier	
Root					Descri	ption of work order update	ı	Initial	Ac	tion	Sign &		
Cause		Date	Step	Qty		or Non-conformance	Ch	nief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data					,								
Equip/Tooling					Ì								
Operator								•					
Material										·			
Setup													
Other			1										
Process									•				
Supplier					ļ						•		
Training													
Unapproved													
						F	AUL	T CATE	GORY				
Landi	ng Ge	ear			_	General		_			_	<u></u>	-
	∐E	Bending			L	Bend	L	Grain			Ovalized		Pressure/Forced
	$\bigsqcup$	Centre No	ot Concer	ntric to	o/s	BOM/Route		Hardwa	re		Over/Under	tolerance	Temperature/Cure
		Cracks				Broken/Damaged		Inspecti	on Incomplete		Part Incorre	ct :	Weld
		Crushed/	Crimped			Burrs		Instruct	ions Incomplete/	Unclear	Part Lost/M	issing	Wrong Stock Pulled
		Cuffs				Contamination		Mainte	enance		Part Moved		
•		Heat Trea	it			Countersink		Mislabe	eled		Positioned \	Vrong	_
	$\Box$	nspection	n Strip in	Tube		Cut Too Short		Misread	i		Power Loss/	Surge	Other

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

Folio

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Page 1

Work Order ID:

101668

Parent Item:

D3195-041

Parent Item Name:

Bracket Assembly

**Start Date: 5/13/13** 

Required Date: 5/31/13

Start Qty: 6.00

Required Qty: 6.00

Comments:

IPP Rev:A New Issue 05-11-08 JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty		Date ssued	Status
<b>D3195-5</b> Pad	· · · · · · · · · · · · · · · · · · ·	Manufactured	No	101461 83704	· · · · · · · · · · · · · · · · · · ·	100	Each	0.0000	1	ž	FF	13	-06-
<b>M6061T6B0.750X02.000</b> 6061-T6 Bar .750 x 2.00		Purchased	No	- • ,		170	f	10.2260	0.3	1.894737	<u>. W</u>		
				Location		Loc Qty	Lo	oc Code	e 4	. ~	13 i=c/	. ~	a'
				MAT049		10.226			GP 1.8	19 MM	13/02/9	۲/	,
				12313	35 <del>~</del>	10.226			10 \$ 3.1	$S_{MH}$	13/02/3	Q	

NCR:	Yes	/	No
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NCR: Ye	es / No				WORK ORDER NON-C	CONF	ORN	AANCE / UP	DATE			
										QA Closed:	Date	:
Nork Orde	ŕ:				DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
					Rework	]		Skid-tube	Crosstube	1	Water Jet	Engineering
Part N	Ο.			•	Scrap	1	N	Machining	Small Fab	Pro	d. Eng. Coor.	Quality
					Use-as-is	]   T	herm	noforming	Finishing	Rec/Sto	e/Packaging	Other
NCR N	o				Work Order Update	]		Large Fab	Composite	]	Supplier	
	1		· · · · · ·	Danasi		Initi	:-1	Act	ion	Cian 0		
Root	Data	Cton			ption of work order update or Non-conformance				ion iption	Sign & Date	Verification	QC Inspector
Cause Ooc/Data	Date	Step	Qty	-	or Non-conformance	Chief	Elig	Descr	iption	Date	Vernication	QC IIISPECIOI
quip/Tooling	_	ļ										
perator		Ì										
Material	┤	· .			•							,
etup		Ì										
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		1	•		F	AULT C	CATE	GORY				
Landir	ng Gear			-	General							
ſ	Bending				Bend	Gr	rain			Ovalized		Pressure/Forced
Ī	Centre N	ot Conce	ntric to	o/s 🗀	BOM/Route	На	ardwa	re		Over/Under	tolerance	Temperature/Cure
	Cracks				Broken/Damaged	Ins	specti	on Incomplete		Part Incorre	ct	Weld
	Crushed/	Crimped			Burrs	Ins	struct	ions Incomplete/L	Jnclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs				Contamination	М	lainte	nance		Part Moved		
. [	Heat Trea	at			Countersink	М	islabe	eled		Positioned V	Vrong	_
	Inspectio	n Strip in	Tube		Cut Too Short	M	isread	i		Power Loss/	Surge	Other
	Ripples in	n Bend			Drill Holes	Of	ffset					
	Torque V	Vaves in I	Extrusio	n [	Drawing	Or	ut of C	Calibration				
	Turning S	Sequence	!		Finish	Or	ut of S	Sequence			-	
	Wave/Tv	vist in Tu	be		Folio	Ou	utside	Dimensions			h "x -	

DQA:

Date:

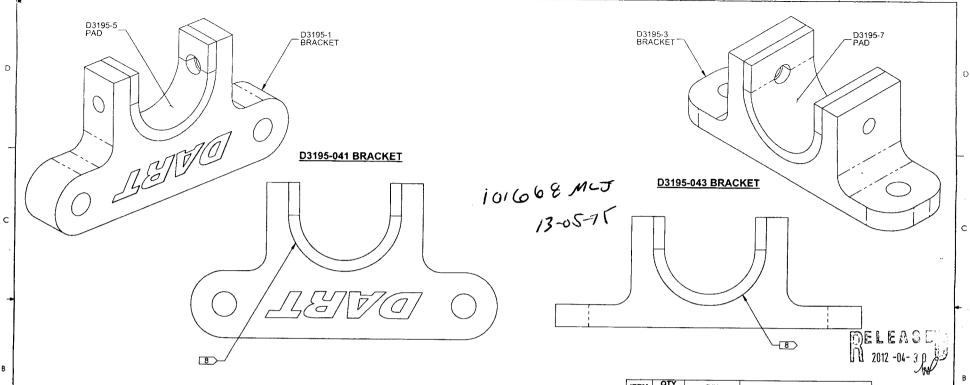
DART AEROSPACE LTD	Work Order:	101668 -
Description: Bracket	Part Number:	D3195-1
Inspection Dwg: D3195 Rev: B		Page 1 of 1

## FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
1.265	+/-0.010	1-3692	1		califer	FK-03
0.242	+/-0.010	,2415	V		caliper	F17-03
1.084	+/-0.010	1-086			Heisht Diw	
R0.200	+/-0.010	. 200	1		trid gase	
R0.377	+/-0.010	, 377	✓		rad souse	
Ø0.277	+0.005/-0.001	, 2785	5		callper	FK-03
2.677	+/-0.005	.2676	J		califer	FK-03
3.432	+/-0.010	3.432	$\checkmark$		caliper	FK-03
0.754	+/-0.010	.753	<b>√</b>		Caliper	FK-03
1.387	+/-0.010	1.386	<b>V</b>		Caliper	FK-03
0.500	+/-0.010	.497	1		caliper	FK-03
0.250	+/-0.005	,25L	$\mathcal{L}$		Caliper	FK-03
1.754	+/-0.010	1.755			caliper	FK-03
Ø0.191	+0.005/-0.001	.192	<b>√</b> ✓		Caliper	FK-03

Measured by:	MH/one	Audited by:	SL	Preliminary Approval:	
Date:	13/05/31	Date:	13-6-5	Date:	:

Rev	Date	Change		Revised by	Approved
Α	04.04.20	New Issue	(P/O D412-702-011/-013)	KJ/RF 10	
В	12.05.14	Dwg Rev updated		KJ SP	711



ITEM	QTY -041	P/N	DESCRIPTION	
]	Х	D3195-041	BRACKET	
1	1	D3195-1	BRACKET	
2	1	D3195-5	PAD	

ITEM QTY -043		P/N	DESCRIPTION	
	Х	D3195-043	BRACKET	
1	1	D3195-3	BRACKET	
2	1	D3195-7	PAD	

В	- UPDATED DRAWING FORMAT. - ADDED NOTE 8, SHEET 1. - D3195-5 & D3195-7 DIMENSIONS EXTENSIVELY REVISED (86-3, C3-3) - REF: PAR11-130				12.04.13
A	NEW ISS	NEW ISSUE			03.06.23
REV.		DESCRIPTION			DATE
DESIGN RP		RP	DART AEROSPACE LTD		
DRAWN RP		RP	HAWKESBURY, ONTARIO, CANADA		
CHECKED A.		A.P.	DRAWING NO.		REV. B
MEG APPR		3	□ D3195		CHEET 1 OF 3

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